

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended) A ~~hand-held~~ hand held device comprising:
~~a circuit board;~~
a processor that controls a display device of the hand held device; ~~means~~
~~attached to said circuit board;~~
~~a movement sensing means~~ a motion sensor mounted on a circuit board;
wherein, the motion sensor is coupled to the processor and senses movement for
sensing movements of the hand held device in more than one plane of motion and the
movement is used by the processor to control the display device;
wherein the movement sensing means contains a single motion sensor includes
an accelerometer chip, having one force sensitive axis, mounted at a non-perpendicular
first non-zero angle with respect to a first plane parallel to the circuit board such that the
accelerometer chip is slanted with respect to the circuit board.
2. (Currently Amended) A hand held device as recited in claim 1, wherein,
the accelerometer chip is further mounted at a second non-zero angle with
respect to a second plane perpendicular to the circuit board. ~~wherein the device is a~~
~~personal digital assistant (PDA).~~
3. (Currently Amended) A hand held device as recited in claim 1,
wherein the device is a personal digital assistant (PDA).
~~wherein the movements sensed by the movement sensing means are used~~
~~to control a display.~~

4. (Currently Amended) A hand held device as recited in claim 1 wherein the first non-zero non-perpendicular angle between the ~~single~~ accelerometer chip and the circuit board is selected to decrease the Z footprint of the hand-held device. ~~around 19 degrees.~~

5. (Currently Amended) A hand held device as recited in claim 1 ~~further comprising a display,~~ wherein ~~motion~~ the movement of said hand-held device controls an orientation of an object ~~viewed~~ displayed on said display device.

6. - 7. (Cancelled)

8. (Currently Amended) A hand held device as recited in claim ~~[[22]]~~ 1, wherein the first non-zero angle is a slanted angle between the accelerometer chip and the circuit board. ~~accelerometer chip senses acceleration in a plurality of non-parallel planes of motion.~~

9: - 24 (Cancelled)

25. (New) A hand-held device, comprising:
a processor that controls a display device of the hand-held device;
an accelerometer chip coupled to the processor;
wherein, the accelerometer chip is mounted on a circuit board in the hand-held device in a slanted fashion that is neither flat nor perpendicular with respect to the circuit board;
wherein, the accelerometer chip senses movement of the hand-held device in more than one plane of motion and the movement is used by the processor to control the display device.
26. (New) The hand-held device of claim 25, wherein movement of said hand-held device controls an orientation of an object displayed on said display device.
27. (New) The hand-held device of claim 25, wherein:
the accelerometer chip is mounted at an angle θ with respect to a plane parallel to the circuit board;
wherein, the angle θ is non-zero and non-orthogonal with respect to the plane parallel to the circuit board.
28. (New) The hand-held device of claim 27, wherein, the angle θ is selected to sense movement of the hand-held device in more than one plane of motion.
29. (New) The hand-held device of claim 27, wherein, the angle θ is selected to optimize height of the hand-held device.
30. (New) The hand-held device of claim 25, wherein:
the accelerometer chip is mounted at an angle ϕ with respect to a plane perpendicular to the circuit board;

wherein, the angle θ is non-zero and non-orthogonal with respect to the plane perpendicular to the circuit board.

31. (New) The hand-held device of claim 30, wherein, the angle ϕ is selected to sense movement of the hand-held device in more than one plane of motion.

32. (New) The hand-held device of claim 30, wherein, the angle ϕ is selected to optimize height of the hand-held device.

33. (New) A device, comprising:

a display;

a processor that controls the display of the device;

a motion sensor mounted on a circuit board;

wherein, the motion sensor is coupled to the processor and senses movements of the hand-held device in more than one plane of motion and the movements are used by the processor to control an orientation of an object viewed on said display device;

wherein the motion sensor includes an accelerometer chip mounted at an angle θ with respect to a first plane parallel to the circuit board;

wherein, the angle θ is non-zero and non-orthogonal.

34. (New) The hand-held device of claim 33, wherein:

the accelerometer chip is mounted at an angle ϕ with respect to a plane perpendicular to the circuit board;

wherein, the angle θ is non-zero and non-orthogonal.

35. (New) The hand-held device of claim 34, wherein: wherein the angle θ and the angle ϕ are selected to decrease a Z footprint of the device.

36. (New) The hand-held device of claim 34, wherein: wherein the angle θ and the angle ϕ are selected to optimize a size of the device.
37. (New) The device of claim 31, wherein, the motion sensor is embedded in the device.
38. (New) The device of claim 31, wherein, the motion sensor is coupled to the device via an add-on attachment.